

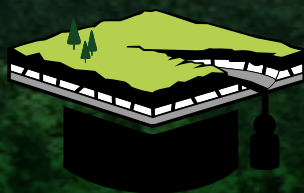
GeoscienceINFO

FUNDED BY APGO EDUCATION FOUNDATION

ANNUAL REPORT

2021

Prepared by: The Board of
Directors June 17, 2022



APGO
education
foundation

BRINGING GEOSCIENCE TO THE PUBLIC

OUR MISSION

Our mission is to provide financial and other support to:

- Promote a greater public understanding of geoscience
- Support the individuals who study geoscience
- Support internationally trained geoscientists to obtain their professional registration in Ontario



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Charitable Registration Number 84604 5052 RR0001

Photo: (this page) Shatter cones in sandstone at Laurentian University in Sudbury, Ontario. (front cover) Sandstones and shales from Lower Ball's Falls, Ontario.



HIGHLIGHTS

Despite the restrictions of the COVID-19 pandemic, much was accomplished in 2021:

- **Record donations of \$343,053** including the establishment of an endowment fund by Dr. Bill Pearson
- **Major upgrades completed on GeoscienceINFO.com** with virtual field trips (VFTs) and Geotrails moved to ESRI ArcGISTM and StoryMapsTM
- **GeoscienceINFO website** moved to WordPress™ platform providing greater functionality
- **Released Geovideo** on the detailed geological and environmental history of the Niagara Escarpment
- **Carried out teachers' workshop** at the Annual GAC-MAC Meeting in London, Ontario
- **Launched major StoryMap of Arkona** highlighting a key fossil area in southern Ontario
- **Completed initial work on prototypes** for Geotrails along the Bruce Trail in the Hamilton-Niagara Region
- **Developed a new blog: Beneath Your Feet: A Geoscience Blog** which was launched on January 11, 2022
- **Provided a grant of \$3,200 to the Arkona Lions Museum and Information Centre** to purchase a microscope and LED TV to display microfossils.

Photo: McMaster University student, Keira Hum, carrying out a Lidar survey using an iPad Pro of a dolostone outcrop in the Hamilton area.

ABOUT US

The APGO Education Foundation ("APGOEF") is a registered charitable organization under the Canada Not-for-profit Corporations Act, registration number 84604 5052 RR0001.

The purpose of the charity is to advance the education of the public in the area of geoscience by:

- Holding lectures, presentations, and conferences on geoscience both in person and virtually to introduce geoscience to high school and university students as well as enhance the knowledge of the general public.
- Providing scholarships to post-secondary students for the study of geoscience in the final year of a Bachelor of Science (B.Sc.) degree program.
- Providing bursaries to immigrants to Canada who are internationally trained geoscientists and have demonstrated financial need for completion of licensure procedures for registration as professional geoscientists (P.Geo.s) in Ontario.

The Foundation provides funding to support innovative geoscience education projects working with university geoscience departments, community groups and not-for-profit organizations across Ontario. Please see our website at www.apgoedfoundation.ca

GeoscienceINFO.com is an innovative one-stop website for the public to access information about the earth beneath their feet developed by APGOEF. This new website provides interesting information on all facets of geoscience. A particularly innovative feature of GeoscienceINFO.com is the highlighting of virtual field trips and Geotrails in different areas in Ontario. This enables viewers to experience and learn about the geology of an area while traversing it digitally in ESRI ArcGIS Online™ and StoryMaps™. Information on the latest discoveries and news in the world of geoscience is featured on the website, on our blog Beneath Your Feet: A Geoscience Blog, as well as on our social media.



Photo: Table display at Science Rendezvous Kingston May 2022.

BOARD OF DIRECTORS

DR. BILL PEARSON P.GEO., FGC *Chair*

Dr. Bill Pearson has over 48 years of experience in the national and international mining industry and has carried out exploration and development programs in 18 countries around the world. He has held senior positions in a number of public junior mining companies and has served on several boards. He was the founding President of the Association of Professional Geoscientists of Ontario (APGO) from 2000-2003. In 2009 he received the Canadian Professional Geoscientist Award for his outstanding public leadership of geoscience in Ontario and Canada, and for raising recognition of the contribution of his profession to society, and in 2015 he received the PDAC Distinguished Service Award for his service to Canada's Mineral and Exploration Industry. He is the Founder of APGOEF and has provided much of the funding to launch and grow the charity.

DR. NEIL WESTOLL P.GEO., FGC, FCIM *Secretary & Treasurer*

Dr. Neil Westoll is widely experienced in metal exploration and business development internationally, having spent over 50 years with senior and junior Canadian and international mining companies in exploration and business development and as an independent consultant to the mining industry. Since 2001, he has focused on the environmental and consultation aspects of the mining business. He was appointed to the Council of the APGO in 2000, and served from its inception to June 2006, and was Treasurer of the APGO until that time.

KRISTIN HANSON, M.SC. P.GEO., FGC

Kristin Hanson is a hydrogeologist with 30 years of experience in the environmental and engineering consulting business, where she developed technical expertise in contaminated site assessment and remediation. Kristin is a retired executive, having most recently held the role of Senior Vice President – Infrastructure Engineering, Central Canada at SNC-Lavalin. Kristin focuses on combining technical skills and people skills to solve problems and communicate complex technical concepts using simple language. Valuable experience was gained through her eight years of volunteer work on APGO Council, including serving as Council President in 2011-2012.

DR. CAROLYN EYLES P.GEO.

Dr. Eyles is a Professor in the School of Interdisciplinary Science and the School of Earth, Environment & Society at McMaster University in Hamilton, Ontario. She holds a B.Sc. in Environmental Sciences from the University of East Anglia, a postgraduate certificate of Education from the University of Newcastle upon Tyne, and an M.Sc. and Ph.D. in geology from the University of Toronto. Her research interests lie in the fields of glacial sedimentology and

environmental geology, and she has worked extensively in Alaska, Australia, Brazil, Iceland, Norway, Great Britain and Canada. She has over 75 publications in peer-reviewed journals and books and has co-authored two first year geoscience textbooks. Dr. Eyles is a 3M National Teaching Fellow and has won numerous teaching awards including an OCUFA Teaching Award, an Ontario Undergraduate Student Alliance Teaching Award, and the McMaster President's Award for Excellence in Instruction. In 2022, Dr. Eyles received the Award of Merit from Professional Geoscientists Ontario (PGO) recognizing her major contributions to professional geoscience.

ANDREA WALDIE P.GEO., FGC

Andrea Waldie, former Business Manager of the Foundation, joined the Board of Directors on January 1, 2022. Andrea is currently the CEO of Geoscientists Canada, the national umbrella organization of the self-regulatory bodies licensing professional geoscientists in Canada, also Treasurer of the Global Geoscience Professionalism Group, and lead coordinator of the national Promoting Geoscience Group. Prior to joining Geoscientists Canada, Andrea spent over 20 years in the mineral exploration and mining industry. She served as the Executive Director & Registrar of the Association of Professional Geoscientists of Ontario (APGO), now Professional Geoscientists Ontario (PGO), from 2007 to 2013. From 2008 through 2021, she served as the volunteer Business Manager of the APGO Education Foundation. Andrea holds a B.Sc. in Earth Sciences from the University of Waterloo, and is a registered professional geoscientist (P.Geo.) in Ontario and British Columbia. She is a strong proponent of communicating the importance and wonders of geoscience to the public; promoting and supporting geoscience professionalism; and fostering diversity, equity, and inclusion in the profession.

ADVISOR TO THE BOARD

DR. NANCY E. MCINERNEY-LACOMBE DM, MBA, BA (HONS)

Dr. Nancy E. McInerney-Lacombe is a senior executive with close to 30 years of domestic and international experience in the financial sector. Nancy's career has spanned three distinct areas including: Senior Vice President, Royal Bank of Canada; Director, Office of the Superintendent of Financial Institutions, Federal Government of Canada; and Financial Sector Specialist in East Africa for The World Bank Group. Nancy also performed an Executive in Residence (EIR) role at the Richard Ivey School of Business from 2005 to 2014. She returned to Ivey as an EIR in 2016. She also served as a Board member and Chair of the Advancement Committee, Rosseau Lake College, Muskoka, Ontario from 2013 to 2015. Previous public board experience includes Chair of the Audit Committee of Desert Sun Mining Corporation prior to its takeover by Yamana Gold Corp. in 2006.

MANAGEMENT TEAM

MONIQUE GAUDET *Business Manager*

Monique Gaudet was appointed Business Manager of the APGOEF on January 1, 2022. Mrs. Gaudet is a successful independent consultant with strong leadership, communication, and management skills who has provided strategic, business, and operational support to numerous non-profit organizations including The Community Oak Park, St Luke's Community Hub, Femmes du Vin, Advocis, and CEAN. She provides strategic and operational leadership, guides and supports volunteer Boards of Directors, and provides administrative leadership. For clients, she streamlines processes, fulfills administrative and finance roles, researches and writes grants, and advances fundraising and donation initiatives. Mrs. Gaudet holds a Business Administration Diploma (Honours) from Seneca College, an Event Management Certificate from Humber College, and holds the Certified Meeting Planner Designation of the Convention Industry Council.

DR. DEANA SCHWARZ P.GEO *Manager GeoscienceINFO.com*

Dr. Deana Schwarz, received a B.Sc. in biology and a B.Sc. in geology. She received her M.Sc. and Ph.D. in stable isotope geochemistry at the University of Western Ontario, where she focused on the relationship between living systems and their environment throughout the geologic past. Dr. Schwarz has developed a deep sense of responsibility in educating others about geoscience, a sentiment strengthened by her years of teaching to university and college students. She is working hard to continue to make geoscience more accessible to the public, both online and in the field. In 2021, she led the successful transition of the GeoscienceINFO virtual field trips to the ESRI ArcGIS system. In addition, she has developed a number of StoryMaps that have become a key platform to presenting Geotrails to the public.

BERNARD KRADJIAN *Director Marketing & Communications*

Bernard Kradjian has over 12 years of solid experience in communications and marketing including website and social media development. As a consultant, he has developed and branded websites and social media accounts for a number of public and private sector organizations. He has produced and edited videos and has extensive experience on YouTube. Since 2008, he has been the communications manager for PGO and is responsible for their popular "Field Notes" that is distributed to more than 3000 people each week. In addition, he develops PGO presentations, writes and edits reports, including the Annual Report, and designs promotional items for tradeshows and the Annual General Meeting. In 2021 Bernard carried out the conversion of the GeoscienceINFO.com website into WordPress which greatly enhanced the development capabilities of the site.

VERONICA KLASSEN

Ms. Veronica Klassen joined the APGOEF Team in June 2021 to develop and manage our new blog, Beneath Your Feet: A Geoscience Blog, which was launched on January 11, 2022. Ms. Klassen recently received her M.Sc. in Science Communication at Laurentian University, and she holds a Bachelor of Arts and Science degree from McMaster University. She is passionate about making geoscience accessible and engaging for the public.



Photo: McMaster University student in front of dolostone outcrop in Hamilton area.

MAJOR ACTIVITIES IN 2021

Due to the on-going pandemic, many of our activities were focused on enhancing virtual tools for public awareness and education.

Photo: Dolostone blocks with many vugs.

GEOSCIENCEINFO UPGRADES

Global pressures in the past two years due to the COVID pandemic have resulted in an increased necessity for a reliable and user-friendly online presence for any organisation in order to reach the public. To meet these demands and ensure the best virtual learning experience possible, GeoscienceINFO made some important upgrades and utilized innovative new online technology in 2021.

A collection of geology-themed Virtual Field Trips is available on GeoscienceINFO. These trips contain a number of stops of interest that describe the geological history, the rock units visible (outcrops) at the stop, and a beautiful library of outcrop and hand sample photos. Visitors are encouraged to use these trips as a self-guided tour, or from the comfort of their own home or classroom. This past year GeoscienceINFO completed a big upgrade by converting all our Virtual Field Trips to ESRI's ArcGIS Online map-based platform. This move provides visitors with the highest quality, seamless virtual experience. Maps respond quickly to commands, and users are guided through the entire process by user-friendly prompts.

This has been an exciting year for new technology. We have taken advantage of ESRI's newest release and begun the production of geology-based "Story Maps" of locations across Ontario. Story Maps allow us to tell the geological story of a site in the most interactive, creative way possible, using a variety of media types such as photos, videos, 360-degree photos, LiDAR-based models, slide bars, and more. We released our first Story Map of Arkona, Ontario at GAC MAC 2021, which was met with very positive reviews.

In addition to map upgrades, in 2021 we moved our GeoscienceINFO website to a new management system, WordPress. This user-friendly platform has made GeoscienceINFO faster, easier to navigate, and provides us with an ever-growing list of widgets to continue to improve and modify our site in the future.



Ontario map showing all the Virtual Field Trips offered on GeoscienceINFO as of June 2022



Arkona Virtual Field Trip showing location of six stops. The Arkona Story Map provides detailed information with photos, 3D models, 360-degree photos and drone images to highlight the geology of the area.



NIAGARA ESCARPMENT PROJECT AND OUR NEW GEOTRAILS

The APGOEF is working closely with Dr. Carolyn Eyles, Dr. Alexander Peace and their students in the School of Earth, Environment & Society at McMaster University to develop a series of Virtual Field Trips and Geotrails along the Niagara Escarpment. This work is also being facilitated in cooperation with the Bruce Trail Conservancy (BTC) under an MOU between the organisations. Mandated labour restrictions due to the on-going global health pandemic unfortunately prevented us from taking students into the field to collect research for much of summer 2021.

We were however able to carry out limited field work in several sites in the Hamilton area near McMaster to create several prototype geotrails along the Bruce Trail. Geotrails will be a collection of interesting geological and environmental sites along the Bruce Trail that can be visited in a single 2-3-hour hike. They will focus on the geology and environment of the area and will allow hikers to better understand the geology around them. Geotrails also provide those that are unable to hike the Bruce Trail virtual access to the important features along the trails. The first Geotrails are expected to be released in mid-2022.

Photo: dolostone of the Lockport Group, from the Chedoke Radial Trail Geotrail.

URBAN GEOTRAILS

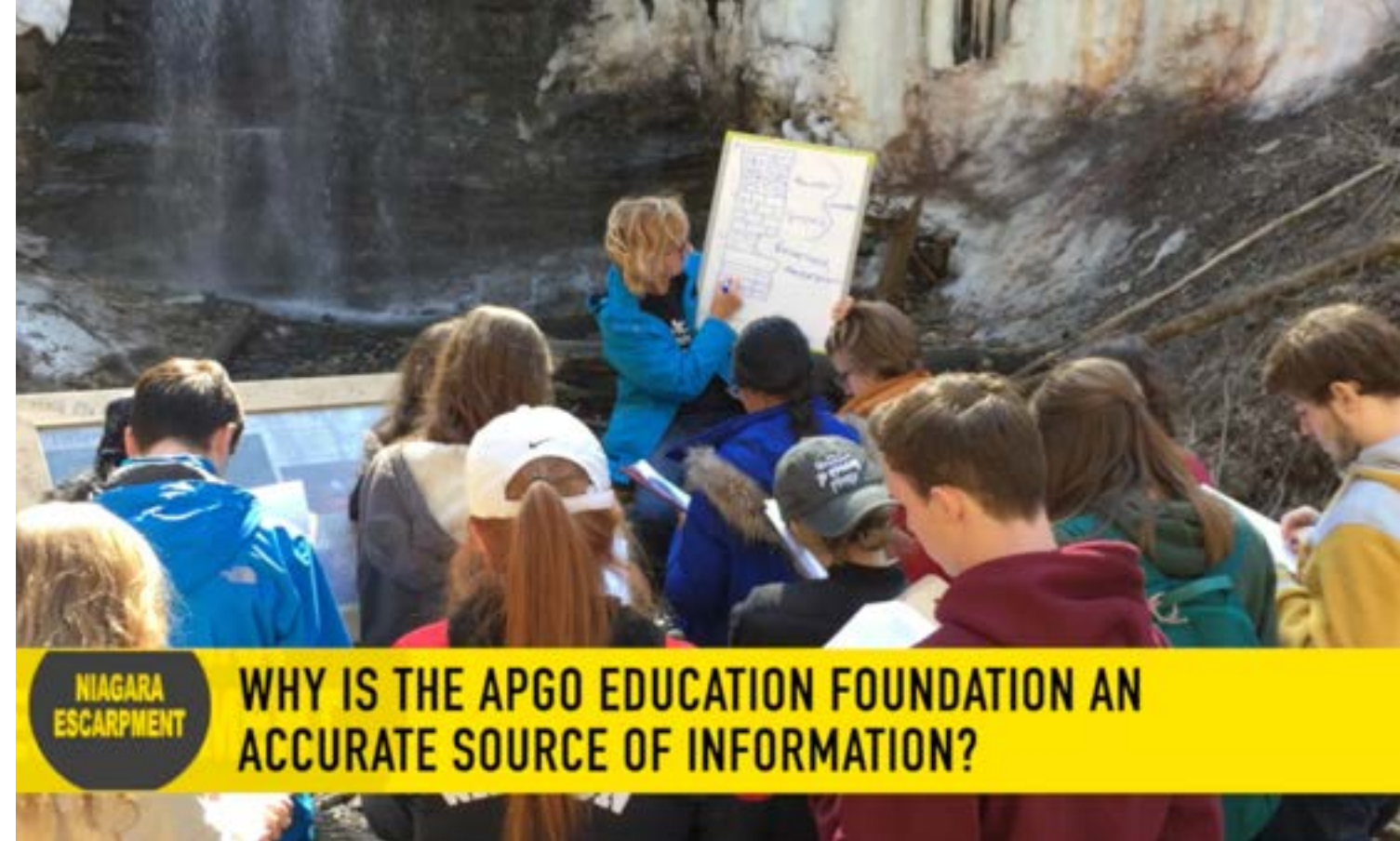
The field is not the only place to learn about geology; urban centres also provide plenty of geological subject matter. This is why we have spent much of 2021 developing a new feature for GeoscienceINFO, called “Urban Geotrails”. Urban Geotrails will feature a collection of buildings, initially in Toronto, within walking distance of each other. The geological significance of each building will be provided, such as the type of rocks used in its construction, the location from which these materials were quarried, the characteristics of materials, and how all this information is connected to architectural detail.

In 2021, with Dr. Heidi Daxberger and her team at the University of Toronto, research and data collection began on a selection of buildings on the University of Toronto campus. The aim of the project is to establish an Urban Geotrail across downtown Toronto from the Convention Centre to the Royal Ontario Museum. The data collected in 2021, along with more fieldwork in 2022, will become the first Urban Geotrail released on GeoscienceINFO. Visitors will be able to visit historic buildings such as the Legislature Building and University College to learn about the materials and thought process involved in their construction. Tours may be used as self-guided tours while walking from building to building, or visited virtually at home or in the classroom, as accessible educational experiences. We thank the Canadian Geological Foundation for their financial support for our Urban Geotrail program.

3D Lidar image of our first Urban Geotrail at the University of Toronto campus.



Photo: 3D interactive model of the east entrance of Knox College at the University of Toronto campus.



NIAGARA ESCARPMENT

WHY IS THE APGO EDUCATION FOUNDATION AN ACCURATE SOURCE OF INFORMATION?

Photo: Dr. Carolyn Eyles, leading a class along the Niagara Escarpment.

GEOVIDEO RELEASED OF GEOLOGICAL AND ENVIRONMENTAL HISTORY OF THE NIAGARA ESCARPMENT

On April 15, 2021, APGOEF announced the release of its new geovideo about the fascinating geological and environmental history of the Niagara Escarpment. This geovideo is based on a presentation in the Bruce Trail Conservancy webinar series by Dr. Carolyn Eyles, P.Geo., Professor, School of Earth, Environment & Society, and a Director of the Foundation. Dr. Eyles and her associate Dr. Alexander Peace of McMaster University are leading research into factors affecting erosion of the Escarpment and are major contributors to this project. The geovideo can be viewed at the following link on the [GeoscienceINFO YouTube channel](https://youtu.be/7VEgoT2Ojn0) <https://youtu.be/7VEgoT2Ojn0>

The geovideo importantly introduces the most ambitious project by the Foundation to date – to bring a major understanding of the fascinating geology and environmental history of the Niagara Escarpment to the public through our innovative virtual field trips.



GAC MAC 2021 AND ENHANCED ARKONA VIRTUAL FIELD TRIP

The APGOEF attended the Geological Association of Canada – Mineralogical Association of Canada (GAC-MAC) 2021 held in London, Ontario in November 2021. Along with Lesley Hymers of Mining Matters and Beth McLarty-Halfkenny of Carleton University, we hosted a very successful day-long session of talks on “Geoscience Education”. We also debuted our first-ever StoryMap, the Arkona Virtual Field Trip Experience. In addition to a virtual tour of the Arkona area, this StoryMap provides in-depth and accessible chapters on the geological history and paleoenvironment of the area, supplemented with a wide variety of media such as photos, 360-degree photos, videos, drone footage, slide bars, and high-quality animations. Delegates who accessed this virtual experience expressed very positive reviews about the quality and content of the material provided.

Continuing our collaboration with Lesley Hymers and Beth McLarty-Halfkenny, we delivered a full day Teachers' Workshop at the conference. Educators from as far away as Ottawa came to participate in a day of learning about how to effectively teach geoscience, using interactive activities and materials. Participants were given a full rocks and mineral set, along with mineral testing supplies, and a comprehensive fossil kit of the Arkona area, generously donated by Bob O'Donnell. Guest speakers were on-hand to offer unique perspectives on learning geoscience and take educators through hands-on activities that may be later implemented in their classrooms. Overall, the workshop gained very positive reviews.

Photo: Arkona Virtual Field Trip Story Map. This is a photo of the north pit, now flooded with water.



Photos: The GAC MAC 2021 Teachers' Education Workshop.



BENEATH YOUR FEET: A GEOSCIENCE BLOG

APGOEF began development of a new blog in 2021, called “Beneath Your Feet: A Geoscience Blog”, hosted on the GeoscienceINFO website. In June 2021, Veronica Klassen, M.Sc., a recent graduate of Laurentian’s Science Education Program, joined the Foundation team as Blog Manager. For the second half of the year, Veronica led the team in setting up the blog, organizing articles, inviting guest writers, and developing our finished look. This hard work resulted in a successful launch on January 11, 2022, and we continue to release bi-weekly articles about geoscience-related themes to the public. The Blog is another major step forward in our mission to provide timely and technically accurate information about important aspects of geoscience to the public.

On March 10, 2021, APGOEF announced that it had granted \$3,200 to the Arkona Lions Museum and Information Centre in Arkona approximately 50km west of London, Ontario. Arkona is particularly noted for well-preserved Devonian fossils such as crinoids, brachiopods, corals and trilobites. These funds were used to purchase an Olympus Trinocular Stereo Microscope and 4K LCD display screen for educational learning at the museum. The museum houses an excellent collection of fossils from the Arkona area, including samples from the privately-owned nearby Hungry Hollow fossil pit. The stereo binocular microscope will allow visitors to explore the fascinating world of fossils and especially microfossils at Arkona. Visitors to the museum will be able to manipulate the focus and magnification so that they can explore microscope slides of the remarkable range of fossils. The microscope will have a camera that is connected to a wall-mounted 4K LCD screen to enhance viewing.

SCHOLARSHIPS AND BURSARIES

Unfortunately, the COVID-19 pandemic seriously disrupted the scholarship and bursary program in 2021 such that neither were awarded. It is hoped that both scholarships and bursaries will be awarded in 2022 as the global pandemic continues to ease.

APGOEF Director Kristin Hanson prepared a very interesting article published in our blog entitled “APGO Education Foundation Makes a Difference from Mars and Australia to Museums and PhDs” that highlights how these scholarships have made a big difference in launching the careers of some of our recipients. The scholarship Selection Committee is always impressed with the qualifications of applicants, so she checked in to find out what our 2016 to 2018 scholarship recipients were up to today. Their impressive accomplishments are shared in her article that can be viewed [here](http://www.apgoedfoundation.ca/files/APGOEF_ScholarshipRecipientsUpdateArticle_20210208.pdf) (www.apgoedfoundation.ca/files/APGOEF_ScholarshipRecipientsUpdateArticle_20210208.pdf) They are still early in their careers, but if they represent the future of geoscience, we are certain that the future is bright.

Photos: (right) PhD candidate Xueya Lu, researching mineral carbonization using mine waste.

(below) Traces made by Emerald Ash Borer larvae at the Tiffany Falls Geotrail.



Photo: Lower Ball's Fall waterfall at Ball's Falls Geotrail.

DONATION AND GRANTS

The Foundation continued to raise funds to support public education, scholarships and bursaries with overall donations and grants in 2021 totaling \$343,053 an increase of 129% over 2020. These donations include an Endowment Fund formed by Founder and Chair, Dr. Bill Pearson in 2021. Under the PGO Support Agreement, PGO made an annual donation of \$5,000 to support scholarships and bursaries. In addition, PGO members are provided the option to donate to the Foundation on their annual membership renewal, showing strong support in 2021 with \$8,550 donated, an increase of almost 15% from the previous year. The Foundation is also grateful to PGO for continuing to provide office support including use of office address, a dedicated telephone line, secretarial services, as well as meeting locations.

OUTLOOK FOR 2022

2022 is expected to be an exciting year with the return of full field activities and a greater range of product development possible with the enhanced capabilities from implementation of ESRI ArcGIS and StoryMaps for Virtual Field Trips and Geotrails along with greater hosting flexibility in the GeoscienceINFO.com website now hosted in WordPress.

With the expected return of field work in summer 2022, APGOEF is planning an extensive field program in partnership with McMaster University and University of Toronto focussed in key areas as follows:

- Development and release in mid-summer to fall of the first Geotrails along the Bruce Trail in the Hamilton-Niagara region
- Expansion of the Urban Geotrail in Toronto across the downtown area from the Metro Convention Centre to the Royal Ontario Museum with input from the University of Toronto and supported by the Canadian Geological Foundation

Return of our annual scholarship program is expected with applications to open in the spring of 2022. A second round of scholarships is planned for the fall of 2022 in order to return to a normal schedule. Bursary applications are also expected to return and the APGOEF anticipates awarding bursaries in 2022.

Return of participation of APGOEF at public events is anticipated in 2022. These events will include:

- Prospectors and Developers Association of Canada (PDAC) Convention
- Science Rendezvous in Kingston, Ontario
- Bancroft Rockhound Gemboree in Bancroft, Ontario
- Ottawa Lapsmith & Mineral Club Mineral & Gem show, Nepean Ontario
- University of Toronto Homecoming, Toronto, Ontario
- London Gem and Mineral Show, London, Ontario

Photo: Tiffany Falls, a popular waterfall on the Niagara Escarpment in Hamilton, Ontario.



DONORS

The APGO Education Foundation is deeply grateful to its Founding Sponsors and all of its donors for their generous support.

FOUNDING SPONSORS

- Bill Pearson
- William Pearson Family Fund

PAST PRESIDENTS' BURSARY

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ROBERT HODDER MEMORIAL SCHOLARSHIP

- Bill Pearson

NIAGARA ESCARPMENT PROJECT

- Arsalan Mohajer
- William Pearson Family Fund

CHEDOKE RADIAL GEOTRAIL CONTRIBUTORS

- Dr. Carolyn Eyles, P.Geo.
- Joe Hansen
- Keira Hum
- Dr. Katie Maloney
- Dr. Alex Peace, P.Geo.
- Dr. Deana Schwarz, P.Geo.

TIFFANY FALLS GEOTRAILS CONTRIBUTORS

- Dr. Carolyn Eyles, P.Geo.
- Joe Hansen
- Keira Hum
- Dr. Katie Maloney
- Julia Nielsen
- Dr. Elli Papangelakis
- Dr. Alex Peace, P.Geo.
- Kate Pearson
- Shania Ramharrack-Maharaj
- Dr. Deana Schwarz, P.Geo.

BALLS FALLS GEOTRAIL CONTRIBUTORS

- Dr. Carolyn Eyles, P.Geo.
- Joe Hansen
- Keira Hum
- Dr. Katie Maloney
- Julia Nielsen
- Dr. Alex Peace, P.Geo.
- Dr. Deana Schwarz, P.Geo.

We would like to thank the generosity of all our donors and supporters that have made this year very successful and have allowed us to move strongly forward on the Foundation's purpose to advance the education of the public in the area of geoscience.

Photo: Rock Glen Conservation Area, Arkona, Ontario.



INDIVIDUAL CONTRIBUTORS

PLATINUM OVER \$500

- Kristin Hanson
- Alexandra Horwood
- Anonymous

GOLD \$100 TO \$499

- Peter Duckworth
- Carey Galeschuk
- Dennis German
- Allan MacTavish
- William Pearson
- Johan Shearer
- Andrea Waldie
- Stephen Wilson
- Rimant Zalnierunas

SILVER \$20 TO \$99

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- Cagri Altas
- Sahil Alurkar
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- Stephen Balch
- Elaine Basa
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- Nicola Young
- Artur Zakis
- Kendra Zammit
- Huyun Zhou
- Laura Zimmerman

PARTNERS

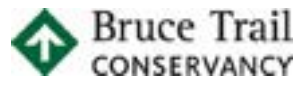


Photo: The Grotto, a limestone outcrop in Tobermory, Ontario.



Photo: Crinoid fossil from Arkona, Ontario showing intact stem and calyx (photo courtesy of Bob O'Donnell).

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AUDITED FINANCIAL STATEMENTS

APGO EDUCATION FOUNDATION
Financial Statements
Year Ended December 31, 2021





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INDEPENDENT AUDITOR'S REPORT

To the Members of APGO Education Foundation

Opinion

We have audited the financial statements of APGO Education Foundation (the organization), which comprise the statement of financial position as at December 31, 2021, and the statements of revenues and expenditures, changes in net assets and cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the organization as at December 31, 2021, and the results of its operations and cash flows for the year then ended in accordance with Canadian accounting standards for not-for-profit organizations (ASNPO).

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are independent of the organization in accordance with ethical requirements that are relevant to our audit of the financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with ASNPO, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the organization's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the organization or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the organization's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

(continues)

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APGO EDUCATION FOUNDATION

Statement of Financial Position

December 31, 2021

Independent Auditor's Report to the Members of APGO Education Foundation (continued)

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the organization's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the organization's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the organization to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.



CHARTERED PROFESSIONAL ACCOUNTANTS
Licensed Public Accountants

Mississauga, ON

	2021	2020
ASSETS		
CURRENT		
Cash	\$ 17,425	\$ 3,706
Marketable securities (Note 3)	330,390	88,684
Harmonized sales tax recoverable	11,597	6,216
Prepaid expenses	437	428
	\$ 359,849	\$ 99,034
LIABILITIES AND NET ASSETS		
CURRENT		
Accounts payable and accrued liabilities	\$ 14,073	\$ 11,850
NET ASSETS	345,776	87,184
LIABILITIES AND NET ASSETS	\$ 359,849	\$ 99,034

ON BEHALF OF THE BOARD

William N Pearson

Director

See notes to financial statements

APGO EDUCATION FOUNDATION
Statement of Revenues and Expenditures
Year Ended December 31, 2021

	General Fund <i>December 31</i> 2021	Public Education Fund <i>December 31</i> 2021	Scholastic Fund <i>December 31</i> 2021	Endowment Fund <i>December 31</i> 2021	2021 <i>December 31</i> 2021	2020 <i>December 31</i> 2020
REVENUES						
Donations	\$ 135,615	\$ -	\$ 1,000	\$ 186,438	\$ 323,053	\$ 120,900
Public education	-	20,000	-	-	20,000	17,579
Scholarships and bursaries	-	-	-	-	-	10,000
Expense recoveries	-	-	-	-	-	1,371
	135,615	20,000	1,000	186,438	343,053	149,850
EXPENSES						
Salaries and wages	-	64,870	-	-	64,870	56,750
Website expenses	24,127	-	-	-	24,127	20,652
Public education	-	19,546	-	-	19,546	26,632
Accounting and audit fees	14,077	-	-	-	14,077	12,876
Advertising and promotion	10,892	-	-	-	10,892	6,492
Legal fees	4,997	-	-	-	4,997	5,930
General and administrative expense	4,015	-	-	-	4,015	391
Insurance	1,740	-	-	-	1,740	1,479
Office expense	362	-	-	-	362	1,533
Interest and bank charges	237	-	-	-	237	100
Scholarships awarded	-	-	-	-	-	10,000
Memberships	-	-	-	-	-	242
Travel expense	-	-	-	-	-	112
	60,447	84,416	-	-	144,863	143,189
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENSES FROM OPERATIONS						
	75,168	(64,416)	1,000	186,438	198,190	6,661

(continues)

See notes to financial statements

APGO EDUCATION FOUNDATION
Statement of Revenues and Expenditures (continued)
Year Ended December 31, 2021

	General Fund <i>December 31</i> 2021	Public Education Fund <i>December 31</i> 2021	Scholastic Fund <i>December 31</i> 2021	Endowment Fund <i>December 31</i> 2021	2021 <i>December 31</i> 2021	2020 <i>December 31</i> 2020
OTHER INCOME (EXPENSES)						
Gain on sale of marketable securities	29,455	-	-	-	29,455	516
Unrealized gain on marketable securities	29,055	-	-	-	29,055	7,364
Dividend income	5,189	-	-	-	5,189	2,532
Foreign investment income	242	-	-	-	242	64
Interest income	211	-	-	-	211	150
Investment fees	(1,812)	-	-	(1,938)	(3,750)	(1,068)
	62,340	-	-	1,938	60,402	9,558
EXCESS (DEFICIENCY) OF REVENUES OVER EXPENSES						
	\$ 137,508	\$ (64,416)	\$ 1,000	\$ 184,500	\$ 258,592	\$ 16,219

See notes to financial statements

APGO EDUCATION FOUNDATION
Statement of Changes in Net Assets
Year Ended December 31, 2021

	General Fund	Public Education Fund	Scholastic Fund	Endowment Fund	Total 2021	Total 2020
NET ASSETS - BEGINNING OF YEAR	\$ 53,402	\$ 4,382	\$ 30,400	\$ -	\$ 87,184	\$ 70,965
Excess of revenues over expenses	137,508	(64,416)	1,000	184,500	258,592	16,219
Transfer between funds	(60,034)	60,034	-	-	-	-
	-	-	-	-	-	-
NET ASSETS - END OF YEAR	\$ 130,876	\$ -	\$ 31,400	\$ 184,500	\$ 345,776	\$ 87,184

See notes to financial statements

APGO EDUCATION FOUNDATION
Statement of Cash Flows
Year Ended December 31, 2021

	2021	2020
OPERATING ACTIVITIES		
Excess of revenues over expenses	\$ 258,592	\$ 16,219
Items not affecting cash:		
Gains (losses) on disposal of investments	(29,455)	(516)
Unrealized gain (loss) on marketable securities	(29,055)	(7,364)
	200,082	8,339
Changes in non-cash working capital:		
Accounts receivable	-	7,445
Accounts payable and accrued liabilities	2,223	1,825
Prepaid expenses	(9)	300
Harmonized sales tax payable	(5,381)	(4,134)
	(3,167)	5,436
Cash flow from operating activities	196,915	13,775
INVESTING ACTIVITIES		
Purchase of marketable securities	(324,685)	(46,534)
Proceeds of disposal of marketable securities	141,489	-
Cash flow used by investing activities	(183,196)	(46,534)
INCREASE (DECREASE) IN CASH FLOW	13,719	(32,759)
Cash - beginning of year	3,706	36,465
CASH - END OF YEAR	\$ 17,425	\$ 3,706

See notes to financial statements

APGO EDUCATION FOUNDATION
Notes to Financial Statements
Year Ended December 31, 2021

DESCRIPTION OF ACTIVITIES

APGO Education Foundation (the "Foundation" or "APGOEF") is incorporated under the Canada Corporations Act as corporation without share capital. It is a registered charity under the Income Tax Act (Canada) and as such is not subject to income tax.

The Foundation's objective is to provide financial and other support to promote a greater understanding of geoscience, support the individuals who study geoscience, and support the practice of geoscience.

The purpose of the charity is to advance the education of the public in the area of geoscience by:

1. Holding lectures, presentations and conferences on geoscience both in person and virtually to introduce geoscience to high school and university students, as well as enhance the knowledge of the general public;
2. Providing scholarships or post-secondary students for the study of geoscience in the final year of a Bachelor of Science (B.Sc.) degree program
3. Providing bursaries to immigrants to Canada who are internationally-trained geoscientists and have demonstrated financial need for completion of licensure procedures for registration as professional geoscientists (P.Geos) in Ontario.

APGOEF provides funding to support innovative geoscience education projects working with university geoscience departments, community groups and not-for-profit organizations across Ontario.

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The financial statements were prepared in accordance with Canadian accounting standards for not-for-profit organizations (ASNFP). Canadian accounting standards for not-for-profit organizations are part of Canadian GAAP. The fund uses the Restricted Fund Method.

The restricted fund method of accounting involves the reporting of details of financial statement elements by fund in such a way that the organization reports total general funds, one or more restricted funds, and endowment funds.

Revenue recognition

APGO Education Foundation follows the fund accounting method of accounting for contributions, which includes donations and grants.

The General Fund recognizes all unrestricted revenue and restricted contributions for which no corresponding restricted fund is presented.

Unrestricted contributions are recognized as revenue when received or receivable if the amount to be received can be reasonably estimated and collection is reasonably assured.

General fund restricted contributions are recognized when the related expenses have been incurred under the terms of the restriction.

Unrestricted investment income is recognized as revenue when earned.

Restricted fund contributions are recognized as revenue in the year in which they are received.

Endowment funds contributions are recognized as revenue to the fund, as well as investment income subject to the conditions that stipulate it be added to the principal amount of the fund.

(continues)

APGO EDUCATION FOUNDATION
Notes to Financial Statements
Year Ended December 31, 2021

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES *(continued)*

Contributed services

Contributed materials and services are recognized only when a fair value can be reasonably estimated, the materials and services are used in the normal course of operations and the materials and services would otherwise have been purchased.

Financial instruments

(a) Measurement of financial instruments

The Foundation initially measures its financial assets and financial liabilities at fair value. It subsequently measures all its financial assets and financial liabilities at amortized cost, except for investments in equity instruments that are quoted in an active market, which are measured at fair value. Changes in fair value are recognized in net income.

Financial assets measured at amortized cost include cash and donations receivable.

Financial liabilities measured at amortized cost include accounts payable and accrued liabilities.

Financial assets measured at fair value include marketable securities.

Measurement uncertainty

The preparation of financial statements in conformity with Canadian accounting standards for not-for-profit organizations requires management to make estimates and assumptions that affect the reported amount of assets and liabilities, disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the period. Such estimates are periodically reviewed and any adjustments necessary are reported in earnings in the period in which they become known.

Financial statement items subject to such estimates and assumption include the valuation of accounts payable and accrued liabilities. Actual results could differ from these estimates.

2. CHANGE IN BASIS OF PRESENTATION AND COMPARATIVE FIGURES

For the year ending December 31, 2021 the organization has changed from the deferral method of presentation to the restricted fund method.

Some of the comparative figures have been reclassified to conform to the current year's presentation.

3. MARKETABLE SECURITIES

	2021 Cost	2021 Market value	2020 Fair Value	2020 Book Value
General Fund marketable securities	\$ 108,987	\$ 130,390	\$ 79,142	\$ 88,684
Endowment Fund marketable securities	184,500	200,000	-	-
	-	-	-	-
	\$ 293,487	\$ 330,390	\$ 79,142	\$ 88,684

APGO EDUCATION FOUNDATION
Notes to Financial Statements
Year Ended December 31, 2021

4. SCHOLASTIC FUND

The Scholastic Fund is comprised of specific bursaries and scholarships as listed below:

	2021	2020
Past Presidents Bursary	\$ 22,800	\$ 16,800
Arsalan Mohajer Bursary Fund	5,000	5,000
Dr. Robert Hodder Scholarship	2,600	2,600
	\$ 30,400	\$ 24,400

5. GENERAL FUND

The general fund is used to pay for operating expenses including legal, audit, marketing and administration costs.

6. RESTRICTED FUNDS

Restricted funds are used to designate donations received for specific purposes. The Foundation has restricted funds for five designated purposes: Past Presidents Bursary, the Arsalan Mohajer Bursary Fund, Public Education, the Dr. Robert Hodder Scholarship and the William Pearson Endowment Fund. All funds are externally restricted.

Restricted contributions received for which the related expenditure has not yet been incurred are recorded as deferred contributions as described in Note 3.

7. COMMITMENTS

Professional Geoscientists Ontario (PGO) agreed in 2018 to provide an annual \$5,000 donation to the Past President's Bursary. This agreement was renewed in November 2020 for another year.

8. SALARIES AND WAGES

During the year, at least 60% of salaries and wages expenditures were directed to developing public geoscience information, which is shared at www.geoscienceinfo.com, and attendance at public events. Due to the impact of COVID-19 only one public event in early March was attended during the year.

9. GRANTS

During the year the Foundation received a number of grants from the William Pearson Family Fund through Giftfunds Canada to be used for the general fund. All amounts designated to the general fund have been recognized as revenue during the year.

10. CONTRIBUTED SERVICES

The Foundation has a service agreement with the PGO in which PGO provides office support services, hosting of the website, and the management of the PGO member optional donations to the APGO Education Foundation during the PGO annual membership renewal.

Additional contributed services from other sources have not been recognized in the financial statements as the fair value of such services can not be reasonably estimated.

APGO EDUCATION FOUNDATION
Notes to Financial Statements
Year Ended December 31, 2021

11. FINANCIAL INSTRUMENTS

The Foundation is exposed to various risks through its financial instruments and has a comprehensive risk management framework to monitor, evaluate and manage these risks. The following analysis provides information about the Foundation's risk exposure and concentration as of December 31, 2021.

(a) Liquidity risk

Liquidity risk is the risk that the Foundation will encounter difficulty in meeting obligations associated with financial liabilities. The Foundation is exposed to this risk mainly in respect of its accounts payable and accrued liabilities. The Foundation expects to meet these obligations as they come due by generating sufficient cash flow from operations.

(b) Market risk

Market risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices. Market risk comprises three types of risk: currency rate risk, interest rate risk and other price risk. The organization is mainly exposed to other price risk. There has been no change to the risk exposures from 2020.

(c) Other price risk

Other price risk is the risk that the fair value or future cash flows of a financial instrument will fluctuate because of changes in market prices (other than those arising from interest rate risk or currency risk), whether those changes are caused by factors specific to the individual financial instrument or its issuer, or factors affecting all similar financial instruments traded in the market. The organization is exposed to other price risk through its investment in mutual funds. This risk is reduced to a minimum, since the Foundation mitigates the risk by investing in conservative investments focused on generating income with long term capital appreciation. There has been no change to the risk exposures from 2020.

Unless otherwise noted, it is management's opinion that the Organization is not exposed to significant other price risks arising from these financial instruments.

12. SUBSEQUENT EVENTS

In March 2020, the World Health Organization declared a global pandemic due to the novel coronavirus (COVID-19). The situation is constantly evolving, and the measures put in place are having multiple impacts on local, provincial, national and global economies.

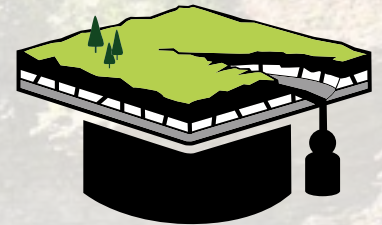
As at June 22, 2022, the organization is aware of changes in its operations as a result of the COVID-19 crisis.

Management is uncertain of the effects of these changes on its financial statements and believes that any disturbance may be temporary; however, there is uncertainty about the length and potential impact of the disturbance.

As a result, we are unable to estimate the potential impact on the organization's operations as at the date of these financial statements.



Photo: (this page) Red shales at Kettle Point, Ontario. (back cover) Tiffany Falls at Tiffany Falls Geotrail.



APGO education foundation

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BRINGING GEOSCIENCE TO THE PUBLIC

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